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ULTRASONOGRAPHIC APPARATUS

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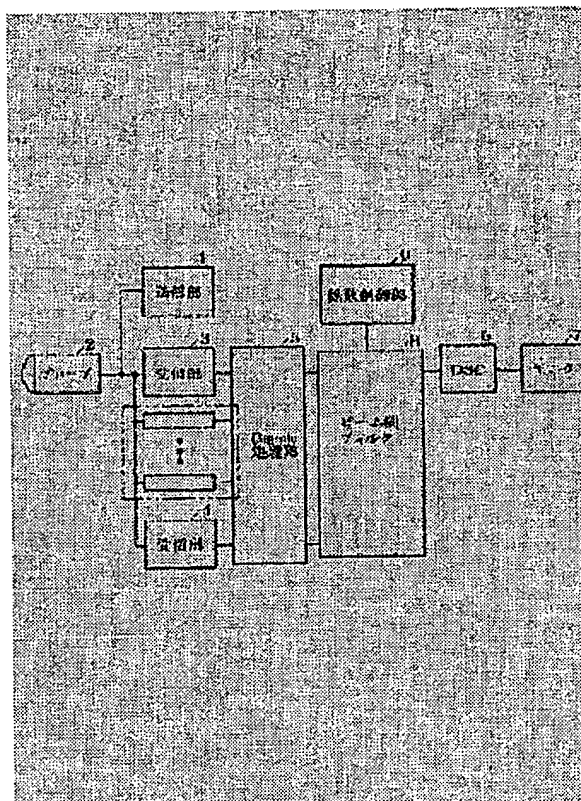
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Abstract of JP2004033617

PROBLEM TO BE SOLVED: To remove a banded artefact due to correlation between concurrent received ultrasonic beams to the same transmit ultrasonic wave in a concurrent receiving ultrasonic apparatus.

SOLUTION: According to a drive signal of a transmit part 1, an ultrasonic pulse is generated from an ultrasonic probe 2 and sent to a subject. The echo of the ultrasonic pulse is converted to a receiving signal by the ultrasonic probe 2. Two-direction receiving beams are simultaneously formed to one-time ultrasonic transmission. The received signals are amplified by receiving parts 3, 4, and delayed and added to form a received beam data. A B-mode processing part 5 converts the received beam data to variable density data. A factor control part 9 specifies a filter factor in consideration of correlation of the ultrasonic beams, and the variable density data for two lines are filtered by an inter-beam filter 8. DSC6 (differential scanning calorimetry 6) performs geometrical conversion to convert the filtered data to an image signal, and the image signal is displayed on a monitor 7.

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